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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
·10/599,042	10/23/2006	Geoffrey Harding	11HP201652	3385
52082 GENERAL E	7590 10/11/2007 LECTRIC CO.		EXAM	INER
GLOBAL PA	TENT OPERATION	KIKNADZE, IRAKLI		E, IRAKLI
187 Danbury Road Suite 204			ART UNIT	PAPER NUMBER
Wilton, CT 06897-4122			2882	
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			NOTIFICATION DATE	DELIVERY MODE
			10/11/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gpo.mail@ge.com allyson.carnaroli@ge.com

	Application No.	Applicant(s)			
	10/599,042	HARDING, GEOFFREY			
Office Action Summary	Examiner	Art Unit			
	Irakli Kiknadze	2882			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a I will apply and will expire SIX (6) MON te, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	·				
2a) ☐ This action is FINAL . 2b) ☑ Thi	This action is FINAL . 2b)⊠ This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.E). 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application	n.	•			
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5)⊠ Claim(s) <u>1-7</u> is/are allowed.					
6)⊠ Claim(s) <u>8-16</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9) The specification is objected to by the Examin	er.				
10)⊠ The drawing(s) filed on 18 September 2006 is	/are: a)⊠ accepted or b)[☐ objected to by the Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	ction is required if the drawing	y(s) is objected to. See 37 CFR 1.121(d).			
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) ☒ Acknowledgment is made of a claim for foreign a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority documents.	its have been received.				
2. Certified copies of the priority documen3. Copies of the certified copies of the priority					
application from the International Burea	•	received in this National Stage			
* See the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	received.			
	·				
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/23/2006.		Informal Patent Application			

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 8-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 8, the phrase "can be operated" renders the claim indefinite because it is unclear whether the limitations following the phrase "can" are part of the claimed invention.

Claims 9-16 are rejected by virtue of their dependence.

Allowable Subject Matter

- 3. Claims 1-7 are allowed.
- 4. Claims 8-16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 5. The following is a statement of reasons for the indication of allowable subject matter: With respect to claims 1-16, prior art fails to teach or make obvious a method

Application/Control Number: 10/599,042 Page 3

Art Unit: 2882

comprising: a thawing mode in which the liquid metal is melted in a line of the liquid-metal anode; and an operating mode in which the liquid metal is pumped through the line and X-ray beams are produced, wherein in thawing mode, the engine of the pump is constantly switched on and off in turn as claimed in combination with all of the remaining limitation of the base claim and any intervening claim.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Harding et al. (US Patent Application Publication 2003/0016789 A1 and US Patents 6,647,094 B2 and 6,925,151 B2) teaches the methods and apparatus comprising x-ray source with a liquid metal target.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irakli Kiknadze whose telephone number is 571-272-2493. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on 571-272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/599,042 Page 4

Art Unit: 2882

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

IK September 26, 2007

> Irakli Kiknadze Patent Examiner